

A B S T R A C T

AN ELECTROMAGNETIC VALVE ACTUATOR WITH A PERMANENT MAGNET

5 The invention relates to an electromagnetic valve actuator comprising an actuator member (11, 14) movable under the effect of a resilient member (12, 13) and of at least one coil (20), and at least one permanent magnet (22) arranged to hold the actuator member (11, 14) in at
10 least one of its extreme positions against the resilient member (12, 13) when the coil (20) is not powered, the coil (20) being associated with a core (16) comprising two portions (17) having respective first facets (21) in contact with the permanent magnet (22) and respective
15 second facets (23) that present between them an airgap (e) of size that is much smaller than a thickness (H) of the permanent magnet. According to the invention, the airgap (e) forms an angle with the direction (25) of magnetization of the permanent magnet (22).

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35 Translation of the title and the abstract as they were when originally filed by the Applicant. No account has been taken of any changes that may have been made subsequently by the PCT Authorities acting ex officio, e.g. under PCT Rules 37.2, 38.2, and/or 48.3.